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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,147	08/02/2007	Takefumi Yoshida	358362011200	5089
7590	02/18/2010		EXAMINER	
Barry E. Bretschneider Morrison & Foerster 1650 Tysons Blvd. Suite 300 McLean, VA 22102			MCCULLEY, MEGAN CASSANDRA	
			ART UNIT	PAPER NUMBER
			1796	
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			02/18/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/583,147	YOSHIDA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Megan McCulley	1796	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 22 December 2009.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1,3-5,8,11,13 and 15 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,3-5,8,11,13 and 15 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/27/2009</u> .   | 6) <input type="checkbox"/> Other: _____ .                        |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 3-5, 8, 11, 13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muroi et al. (U.S. Pat. 5,591,814) view of Karkozov et al. (SU 852914). The English language translation of this document is used for the citations below.

Regarding claim 1: Muroi et al. teaches a bifunctional epoxy resin (col. 6 lines 20-25) in liquid form (col. 10 lines 1-10) and a dispersoid/solid particle phase (col. 10 lines 60-65) of a latent curing agent (abstract).

Not disclosed is the compound having two or more amino groups in a molecule is an aromatic amine compound having a benzoxazole structure. However, Karkozov et al. teaches an epoxy composition comprising a benzoxazole structure (page. 3). Muroi et al. and Karkozov et al. are analogous art because they are both concerned with the same field of endeavor, namely epoxy resin adhesives with solid latent curing agents. At the time of the invention a person having ordinary skill in the art would have found it obvious to combine the benzoxazole compound of Karkozov et al. with the composition of Muroi et al. and would have been motivated to do so since Karkozov et al. states that the use of the benzoxazole as a curing agent raises the pot life and the heat resistance of the epoxy composition (pages 2 and 3).

Regarding claim 3: Muroi et al. teaches the epoxy is liquid (col. 10 lines 1-5).

Regarding claims 4 and 8: Muroi et al. teaches the solvent MIBK (examples) which has a boiling point below 120 °C. While it is not disclosed to use it in the epoxy composition, at the time of the invention a person having ordinary skill in the art would have found it obvious to use the viscosity of Muroi et al. in the composition of Muroi et al. and would have been motivated to do so since viscosity control is an important concern of Muroi et al. (col. 10 lines 10-15).

Regarding claims 5, 11, 13 and 15: Muroi et al. teaches a particle size of 0.1 micron (abstract).

### ***Response to Arguments***

Applicant's arguments filed 12/22/2009, with respect to the rejection(s) of claim(s) 1, 3-5, 8, 11, 13, and 15 under Maeda et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Muroi et al.

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Megan McCulley whose telephone number is (571)270-3292. The examiner can normally be reached on Monday - Thursday 7:30-6:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571) 272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/  
Supervisory Patent Examiner, Art Unit 1796

/M. M./  
Examiner, Art Unit 1796